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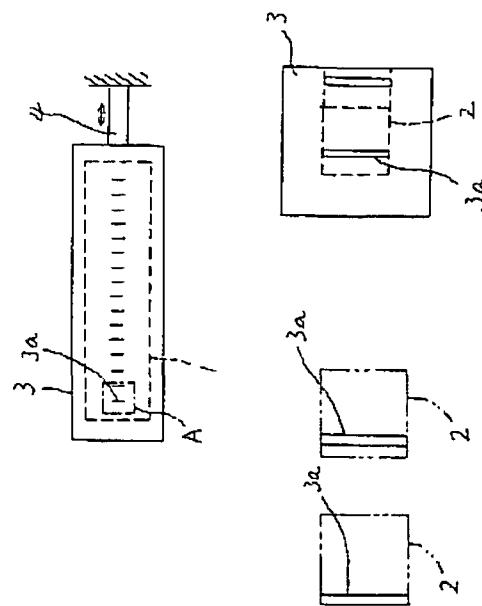
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TITLE : IMAGE SENSOR



ABSTRACT : PURPOSE: To increase the information amount and to enhance the resolution by moving a moving plate which is placed on every photodetecting surface side of each photodetecting cell, and has an aperture whose width is smaller than width in the detecting direction of each photodetecting cell by synchronizing with a scan of each photodetecting cell.

CONSTITUTION: A moving plate 3 is a glass plate which has a metallic vapor deposition film on the surface and reflects light, and provided continuously with apertures 3a whose width is narrower than width in the detecting direction of a cell 2 for allowing light to pass through in accordance with each photodetecting cell 2 of a sensor main body 1. When the plate 3 is moved by synchronizing with a scan of the photodetecting cell by expanding and contracting a driving bar 4, a measuring light from a measuring light source reaches on the plate 3, while irradiating an object to be measured through an optical system. The measuring light on the plate 3 passes through only the part of the aperture 3a, the remaining light is reflected and does not reach the sensor main body 1, and a passing light reaches each cell 2. The scan of the cell 2 and the movement of the plate 3 are repeated, and processed by each circuit. In such a way, the resolution is enhanced by a multiple of the number of positions taken by the aperture 3a against the cell 2.

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